



June 2008

DEPARTMENT OF EDUCATION
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron
Commissioner of Education



School Report Grade 8

Test Date: March 2008
Code: 11231330
SAU: Orono School Department
School: Orono Middle School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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SUMMARY OF SCORES

Test Date: March 2008

Grade: 8

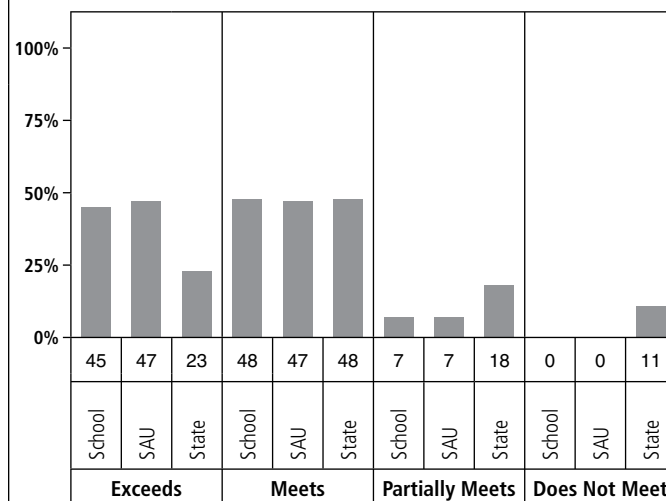
SAU: Orono School Department

School: Orono Middle School

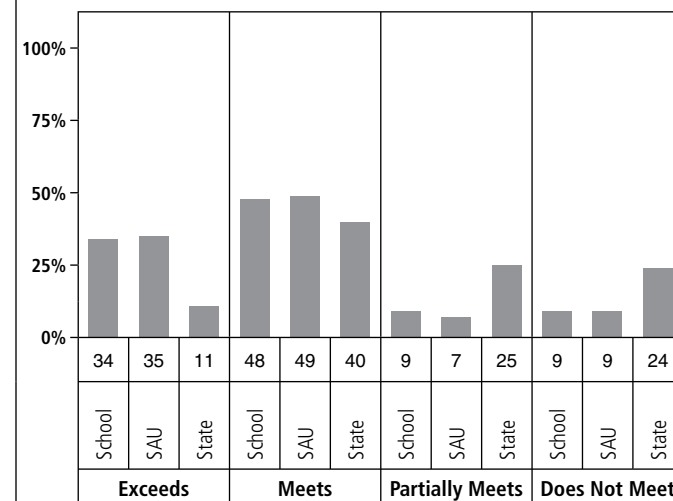
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2005–2006	859	859	845
2006–2007	855	856	847
2007–2008	859	860	849
Cum. Avg. *	857	858	847
Mathematics			
2005–2006	856	856	840
2006–2007	853	853	842
2007–2008	857	858	841
Cum. Avg. *	855	855	841
Science & Technology			
2005–2006	857	857	846
2006–2007	858	858	847
2007–2008	858	858	847
Cum. Avg. *	858	858	847

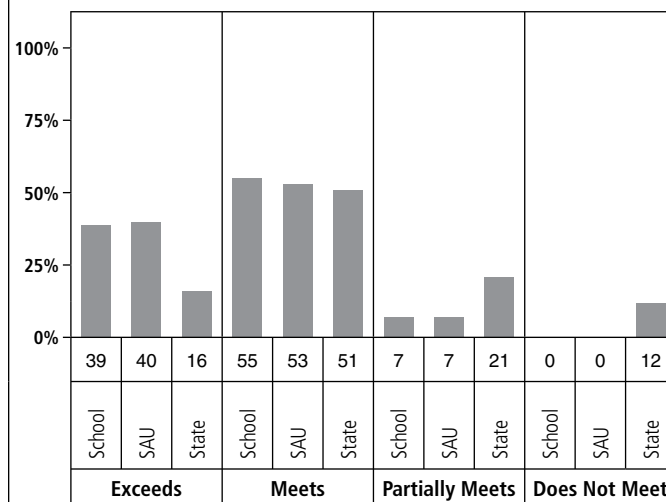
ELA – READING



MATHEMATICS



SCIENCE AND TECHNOLOGY



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008
 Grade: 8
 SAU: Orono School Department
 School: Orono Middle School

CATEGORY OF PARTICIPATION	Enrollment ¹ during testing window						CONTENT AREA PARTICIPATION ²																							
							ELA-Reading						Mathematics						Science and Technology						School			SAU		
	School		SAU		State		School		SAU		State		School		SAU		State													
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	44	100	43	100	15274	100	44	100	43	100	15102	99	44	100	43	100	15097	99	44	100	43	100	15080	99						
Ethnicity African American/Black	1	2	1	2	368	2	1	100	1	100	356	97	1	100	1	100	360	98	1	100	1	100	356	97						
American Indian or Native Alaskan	1	2	1	2	120	1	1	100	1	100	117	98	1	100	1	100	117	98	1	100	1	100	117	98						
Asian or Pacific Islander	1	2	1	2	186	1	1	100	1	100	181	97	1	100	1	100	182	98	1	100	1	100	182	98						
Hispanic	0	0	0	0	139	1	0	0	0	0	136	98	0	0	0	0	136	98	0	0	0	0	136	98						
Caucasian/White	41	93	40	93	14461	95	41	100	40	100	14312	99	41	100	40	100	14302	99	41	100	40	100	14289	99						
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Identified disability	10	23	9	21	2508	16	10	100	9	100	2446	98	10	100	9	100	2441	98	10	100	9	100	2431	98						
Current LEP	0	0	0	0	327	2	0	0	0	0	316	97	0	0	0	0	322	99	0	0	0	0	322	99						
Economically disadvantaged	12	27	11	26	5420	35	12	100	11	100	5329	99	12	100	11	100	5324	99	12	100	11	100	5313	98						
Migrant	0	0	0	0	7	0	0	0	0	0	7	100	0	0	0	0	7	100	0	0	0	0	7	100						

MODE OF PARTICIPATION ³	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	38	86	38	88	12703	83	38	86	38	88	12694	83	38	86	38	88	12710	83						
Identified disability (PET/IEP)	4	11	4	11	437	3	4	11	4	11	421	3	4	11	4	11	445	4						
LEP	0	0	0	0	172	1	0	0	0	0	172	1	0	0	0	0	173	1						
504 plan	1	3	1	3	229	2	1	3	1	3	231	2	1	3	1	3	230	2						
Participation with accommodations	6	14	5	12	2221	15	6	14	5	12	2227	15	6	14	5	12	2197	14						
Identified disability (PET/IEP)	6	100	5	100	1832	82	6	100	5	100	1844	83	6	100	5	100	1813	83						
LEP	0	0	0	0	136	6	0	0	0	0	143	6	0	0	0	0	142	6						
504 plan	0	0	0	0	68	3	0	0	0	0	66	3	0	0	0	0	66	3						
Other	0	0	0	0	213	10	0	0	0	0	202	9	0	0	0	0	204	9						
Participation through alternate assessment (PAAP)	0	0	0	0	177	1	0	0	0	0	176	1	0	0	0	0	173	1						
Identified disability (PET/IEP)	0	0	0	0	177	100	0	0	0	0	176	100	0	0	0	0	173	100						
LEP	0	0	0	0	7	4	0	0	0	0	7	4	0	0	0	0	7	4						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	1	0																		
Approved non-participation – special consideration	0	0	0	0	32	0	0	0	0	0	34	0	0	0	0	0	34	0						
Non-participation – other	0	0	0	0	140	1	0	0	0	0	143	1	0	0	0	0	160	1						

1 Percents are the percentage of students enrolled in each participation category.

2 Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

3 Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date: March 2008
Grade: 8
SAU: Orono School Department
School: Orono Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 861–880)	2005-2006	23	52	23	52	2695	17
	2006-2007	23	43	23	43	2407	16
	2007-2008	20	45	20	47	3428	23
	Cum. Total*	66	46	66	47	8530	18
Meets the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 841–860)	2005-2006	12	27	12	27	6830	42
	2006-2007	21	39	21	40	7494	49
	2007-2008	21	48	20	47	7179	48
	Cum. Total*	54	38	53	38	21503	46
Partially Meets the Standards – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 829–840)	2005-2006	5	11	5	11	3741	23
	2006-2007	6	11	5	9	3628	24
	2007-2008	3	7	3	7	2706	18
	Cum. Total*	14	10	13	9	10075	22
Does Not Meet the Standards – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 800–828)	2005-2006	4	9	4	9	3003	18
	2006-2007	4	7	4	8	1810	12
	2007-2008	0	0	0	0	1611	11
	Cum. Total*	8	6	8	6	6424	14

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Total Reading Cluster	56	100	42.7	76.3	42.9	76.6	36.9	65.9
Literary Text	28	50	21.5	76.8	21.5	76.8	18.3	65.4
Informational Text	28	50	21.2	75.7	21.3	76.1	18.6	66.4

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

ELA-READING RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 8
 SAU: Orono School Department
 School: Orono Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	44	20	45	21	48	3	7	0	0	859	43	47	47	7	0	860	14924	23	48	18	11	849
Ethnicity																						
African American/Black	1										1						348	11	38	22	29	840
American Indian or Native Alaskan	1										1						117	9	43	29	19	842
Asian or Pacific Islander	1										1						179	32	39	18	11	852
Hispanic	0										0						131	18	38	27	17	846
Caucasian/White	41	19	46	19	46	3	7	0	0	859	40	48	45	8	0	860	14149	23	49	18	10	850
Not Reported	0										0						0					
Identified disability																						
Yes	10	1	10	7	70	2	20	0	0	847	9	11	67	22	0	847	2269	3	24	32	42	833
No	34	19	56	14	41	1	3	0	0	863	34	56	41	3	0	863	12655	27	52	16	5	852
Current LEP																						
Yes	0										0						308	8	30	27	34	837
No	44	20	45	21	48	3	7	0	0	859	43	47	47	7	0	860	14616	23	48	18	10	850
Economically disadvantaged																						
Yes	12	2	17	7	58	3	25	0	0	848	11	18	55	27	0	849	5222	12	44	25	19	843
No	32	18	56	14	44	0	0	0	0	864	32	56	44	0	0	864	9702	29	50	14	7	853
Migrant																						
Yes	0										0						7	0	86	0	14	850
No	44	20	45	21	48	3	7	0	0	859	43	47	47	7	0	860	14917	23	48	18	11	849
Gender																						
Female	22	12	55	9	41	1	5	0	0	861	21	57	38	5	0	862	7198	30	48	15	7	853
Male	22	8	36	12	55	2	9	0	0	857	22	36	55	9	0	857	7726	17	49	21	14	847
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	13	1	8	11	85	1	8	0	0	850	13	8	85	8	0	850	807	9	41	32	18	842
No	31	19	61	10	32	2	6	0	0	863	30	63	30	7	0	864	14117	24	49	17	10	850
Gifted/talented program																						
Yes	2										2						592	71	28	1	0	867
No	42	18	43	21	50	3	7	0	0	859	41	44	49	7	0	859	14332	21	49	19	11	849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

ELA–READING RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 8

SAU: Orono School Department

School: Orono Middle School

QUESTIONNAIRE ITEMS	School										SAU						State						
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%		
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	2 39 55 5	0 5 13 2	0 29 54 100	0 10 11 0	0 59 46 0	1 2 0 0	100 12 0 0	0 0 0 0	0 0 0 0	830 854 864 866	2 37 56 5	0 31 54 100	0 56 46 0	100 13 0 0	0 0 0 0	830 854 864 866	9 46 41 5	10 20 28 28	39 50 49 44	24 20 15 15	26 11 7 12	841 849 852 850	
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading? A. The questions on the test match what I have learned in reading class. B. They match some of what I have learned. C. They match just a little of what I have learned. D. There is no match.	64 30 5 2	16 3 0 1	57 23 0 100	12 9 0 0	43 69 0 0	0 1 2 0	0 8 100 0	0 0 0 0	0 0 0 0	863 854 835 864	65 28 5 2	57 25 0 100	43 67 0 0	0 8 100 0	0 0 0 0	863 855 835 864	33 53 11 3	31 21 14 6	48 51 41 34	14 19 25 26	7 9 20 35	853 849 844 836	
Which of the following best describes how you rate yourself as a student in reading? A. very good B. good C. fair D. poor	30 57 9 5	9 9 2 0	69 36 50 0	3 15 2 1	23 60 50 50	1 1 0 1	8 4 0 50	0 0 0 0	0 0 0 0	865 858 861 837	30 58 7 5	69 36 67 0	23 60 33 50	8 4 0 50	0 0 0 0	865 858 867 837	31 49 18 2	42 19 5 4	44 54 42 29	8 19 31 32	6 9 22 34	857 849 840 835	
How difficult was the reading part of this test? A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	2 84 14	0 16 4	0 43 67	1 18 2	100 49 33	0 3 0	0 8 0	0 0 0	0 0 0	860 858 866	2 84 14	0 44 67	100 47 33	0 8 0	0 0 0	860 859 866	15 65 19	16 23 30	44 49 49	22 18 14	18 9 8	845 850 852	
How difficult were the reading passages on this test? A. Most of the passages were more difficult than what I normally read. B. Most of the passages were about the same as what I normally read. C. Most of the passages were easier than what I normally read.	0 37 63										0 36 64						9 53 38	8 17 36	33 51 48	28 21 11	31 11 5	838 848 855	
How hard did you try on the reading part of this test? A. I tried harder on this test than I do on my regular schoolwork. B. I tried about the same as I do on my regular schoolwork. C. I did not try as hard on this test as I do on my regular schoolwork.	44 49 7	7 13 0	37 62 0	11 8 2	58 38 67	1 0 1	5 0 33	0 0 0	0 0 0	857 864 849	43 50 7	39 62 0	56 38 67	6 0 33	0 0 0	858 864 849	43 51 6	23 25 9	48 49 43	19 17 24	10 9 23	849 851 842	
How much time do you spend reading at home each day? A. more than one hour B. 20 minutes to an hour C. less than 20 minutes D. I rarely read at home.	18 50 11 20	4 11 3 2	50 50 60 22	3 10 2 6	38 45 40 67	1 1 0 1	13 5 0 11	0 0 0 0	0 0 0 0	860 861 862 852	19 51 12 19	50 50 60 25	38 45 40 63	13 5 0 13	0 0 0 0	860 861 862 853	18 41 13 28	31 28 20 12	47 49 49 47	13 15 18 26	9 7 12 16	852 852 848 844	
How do you feel about the following statement? <i>“My knowledge of reading will be useful to me as an adult.”</i> A. strongly agree B. agree C. disagree D. strongly disagree	36 59 5 0	12 7 1 0	75 27 50 0	4 16 1 0	25 62 50 0	0 3 0 0	0 12 0 0	0 0 0 0	0 0 0 0	867 855 855 0	37 58 5 0	75 28 50 0	25 60 50 0	0 12 0 0	0 0 0 0	867 856 855 0	43 48 6 2	31 18 11 6	48 50 43 36	14 20 24 32	7 12 21 26	853 848 843 839	
Optional school/SAU question A. B. C. D.	20 60 0 20	0 0 0 0	0 0 0 0	1 2 0 0	100 67 0 0	0 1 0 1	0 33 0 100	0 0 0 0	0 0 0 0	858 843 0 830	20 60 0 20	0 0 0 0	100 67 0 0	0 33 0 100	0 0 0 0	858 843 0 830							

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number

MATHEMATICS RESULTS

Test Date: March 2008
Grade: 8
SAU: Orono School Department
School: Orono Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 861–880)	2005-2006	19	43	19	43	1714	11
	2006-2007	18	33	18	34	1952	13
	2007-2008	15	34	15	35	1657	11
	Cum. Total*	52	37	52	37	5323	11
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 841–860)	2005-2006	17	39	17	39	5533	34
	2006-2007	20	37	20	38	5870	38
	2007-2008	21	48	21	49	5956	40
	Cum. Total*	58	41	58	41	17359	37
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 829–840)	2005-2006	4	9	4	9	4764	29
	2006-2007	11	20	11	21	3982	26
	2007-2008	4	9	3	7	3729	25
	Cum. Total*	19	13	18	13	12475	27
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 800–828)	2005-2006	4	9	4	9	4251	26
	2006-2007	5	9	4	8	3534	23
	2007-2008	4	9	4	9	3579	24
	Cum. Total*	13	9	12	9	11364	24

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	16	29	11.3	70.6	11.4	71.3	8.4	52.5
Cluster 2: Shape and Size	14	25	8.3	59.3	8.5	60.7	5.9	42.1
Cluster 3: Mathematical Decision Making	8	14	6.3	78.8	6.4	80.0	4.6	57.5
Cluster 4: Patterns	18	32	12.5	69.4	12.6	70.0	8.9	49.4

- Cluster 1: Numbers and Operations**
A. Numbers and Number Sense
B. Computation
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**
E. Geometry
F. Measurement
- Cluster 3: Mathematical Decision Making**
C. Data Analysis and Statistics
D. Probability
- Cluster 4: Patterns**
G. Patterns, Relations, and Functions
H. Algebra Concepts
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.



MATHEMATICS RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 8
 SAU: Orono School Department
 School: Orono Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	44	15	34	21	48	4	9	4	9	857	43	35	49	7	9	858	14921	11	40	25	24	841
Ethnicity																						
African American/Black	1										1						352	2	23	23	52	828
American Indian or Native Alaskan	1										1						117	5	22	33	39	832
Asian or Pacific Islander	1										1						181	24	42	20	14	848
Hispanic	0										0						131	7	34	26	33	836
Caucasian/White	41	14	34	19	46	4	10	4	10	857	40	35	48	8	10	857	14140	11	41	25	23	841
Not Reported	0										0						0					
Identified disability																						
Yes	10	1	10	2	20	4	40	3	30	839	9	11	22	33	33	839	2265	1	14	22	62	824
No	34	14	41	19	56	0	0	1	3	862	34	41	56	0	3	862	12656	13	45	26	17	844
Current LEP																						
Yes	0										0						315	5	24	20	51	828
No	44	15	34	21	48	4	9	4	9	857	43	35	49	7	9	858	14606	11	40	25	23	841
Economically disadvantaged																						
Yes	12	2	17	4	33	3	25	3	25	846	11	18	36	18	27	847	5217	5	30	29	37	834
No	32	13	41	17	53	1	3	1	3	861	32	41	53	3	3	861	9704	15	45	23	17	845
Migrant																						
Yes	0										0						7	0	43	43	14	838
No	44	15	34	21	48	4	9	4	9	857	43	35	49	7	9	858	14914	11	40	25	24	841
Gender																						
Female	22	7	32	11	50	2	9	2	9	856	21	33	52	5	10	857	7199	11	40	26	23	841
Male	22	8	36	10	45	2	9	2	9	858	22	36	45	9	9	858	7722	11	40	24	25	841
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	13	0	0	10	77	3	23	0	0	847	13	0	77	23	0	847	806	3	20	30	47	831
No	31	15	48	11	35	1	3	4	13	861	30	50	37	0	13	862	14115	12	41	25	23	842
Gifted/talented program																						
Yes	2										2						592	58	39	2	1	864
No	42	13	31	21	50	4	10	4	10	856	41	32	51	7	10	856	14329	9	40	26	25	840

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 8
SAU: Orono School Department
School: Orono Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	2	0	0	0	0	0	0	1	100	820	2	0	0	0	100	820	9	5	30	23	41	833
B. less than one hour	39	3	18	9	53	3	18	2	12	852	37	19	56	13	13	853	46	10	40	26	25	840
C. one to two hours	55	11	46	11	46	1	4	1	4	861	56	46	46	4	4	861	41	14	42	25	19	843
D. more than two hours	5	1	50	1	50	0	0	0	0	870	5	50	50	0	0	870	5	14	38	23	24	842
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	41	8	44	9	50	1	6	0	0	862	42	44	50	6	0	862	30	17	43	22	18	845
B. They match some of what I have learned.	52	6	26	12	52	3	13	2	9	855	51	27	55	9	9	856	50	10	42	26	22	841
C. They match just a little of what I have learned.	7	1	33	0	0	0	0	2	67	839	7	33	0	0	67	839	17	6	32	29	33	836
D. There is no match.	0										0						4	3	18	25	54	828
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	25	6	55	4	36	1	9	0	0	865	26	55	36	9	0	865	26	29	46	14	11	851
B. good	59	8	31	13	50	2	8	3	12	856	58	32	52	4	12	857	45	7	46	27	20	841
C. fair	9	0	0	4	100	0	0	0	0	852	9	0	100	0	0	852	23	1	26	34	38	833
D. poor	7	1	33	0	0	1	33	1	33	843	7	33	0	33	33	843	5	1	14	29	57	827
How difficult was the mathematics part of this test?																						
A. harder than my regular schoolwork	23	2	20	3	30	2	20	3	30	842	24	20	30	20	30	842	34	4	35	28	32	836
B. about the same as my regular schoolwork	47	5	25	13	65	1	5	1	5	857	45	26	68	0	5	858	52	10	43	26	21	842
C. easier than my regular schoolwork	30	8	62	4	31	1	8	0	0	869	31	62	31	8	0	869	13	33	40	14	13	852
How hard did you try on the mathematics part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	33	4	29	8	57	0	0	2	14	855	33	29	57	0	14	855	44	10	40	26	25	840
B. I tried about the same as I do on my regular schoolwork.	63	11	41	12	44	2	7	2	7	860	62	42	46	4	8	861	50	13	42	24	21	843
C. I did not try as hard on this test as I do on my regular schoolwork.	5	0	0	1	50	1	50	0	0	842	5	0	50	50	0	842	6	9	27	27	38	835
How often do you use laptops in mathematics class?																						
A. almost every day	7	0	0	1	33	2	67	0	0	839	7	0	33	67	0	839	9	6	38	27	29	837
B. two or three days a week	5	1	50	1	50	0	0	0	0	868	5	50	50	0	0	868	16	8	38	27	27	839
C. two or three times each month	2	1	100	0	0	0	0	0	0	864	2	100	0	0	0	864	28	12	41	27	21	843
D. never or almost never	86	13	34	19	50	2	5	4	11	858	86	35	51	3	11	858	48	13	40	23	24	842
How often do you use calculators in mathematics class?																						
A. almost every day	82	14	39	17	47	2	6	3	8	859	84	39	47	6	8	859	38	14	42	23	21	843
B. two or three times a week	16	1	14	4	57	1	14	1	14	849	14	17	67	0	17	851	33	10	41	26	23	841
C. two or three times each month	0										0						18	10	36	27	27	840
D. never or almost never	2	0	0	0	0	1	100	0	0	836	2	0	0	100	0	836	11	7	34	26	33	836
How do you feel about the following statement? <i>"My knowledge of mathematics will be useful to me as an adult."</i>																						
A. strongly agree	61	11	41	13	48	2	7	1	4	861	63	41	48	7	4	861	54	14	44	23	18	844
B. agree	34	4	27	7	47	1	7	3	20	852	33	29	50	0	21	853	38	8	36	27	28	838
C. disagree	5	0	0	1	50	1	50	0	0	843	5	0	50	50	0	843	6	6	31	28	36	835
D. strongly disagree	0										0						2	3	23	25	49	831
Optional school/SAU question																						
A.	20	0	0	1	100	0	0	0	0	850	20	0	100	0	0	850						
B.	60	0	0	1	33	2	67	0	0	839	60	0	33	67	0	839						
C.	0										0											
D.	20	0	0	0	0	0	0	1	100	820	20	0	0	0	100	820						

SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008
Grade: 8
SAU: Orono School Department
School: Orono Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 861–880)	2005-2006	15	34	15	34	1879	12
	2006-2007	17	31	17	32	2192	14
	2007-2008	17	39	17	40	2371	16
	Cum. Total*	49	35	49	35	6442	14
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 841–860)	2005-2006	21	48	21	48	8604	53
	2006-2007	29	54	29	55	7916	52
	2007-2008	24	55	23	53	7630	51
	Cum. Total*	74	52	73	52	24150	52
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 831–840)	2005-2006	6	14	6	14	3618	22
	2006-2007	7	13	6	11	3340	22
	2007-2008	3	7	3	7	3175	21
	Cum. Total*	16	11	15	11	10133	22
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 800–830)	2005-2006	2	5	2	5	2174	13
	2006-2007	1	2	1	2	1865	12
	2007-2008	0	0	0	0	1731	12
	Cum. Total*	3	2	3	2	5770	12

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	14	25	10.0	71.4	10.0	71.4	8.1	57.9
Cluster 2: Physical Sciences	14	25	9.6	68.6	9.7	69.3	7.3	52.1
Cluster 3: Earth and Space Sciences	14	25	9.4	67.1	9.4	67.1	7.7	55.0
Cluster 4: Nature and Implications of Science	14	25	10.0	71.4	10.0	71.4	8.5	60.7

Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslat/gles.htm>.

SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 8
 SAU: Orono School Department
 School: Orono Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	44	17	39	24	55	3	7	0	0	858	43	40	53	7	0	858	14907	16	51	21	12	847
Ethnicity																						
African American/Black	1										1						349	4	35	26	34	837
American Indian or Native Alaskan	1										1						117	8	40	28	24	840
Asian or Pacific Islander	1										1						181	20	50	15	15	849
Hispanic	0										0						131	5	50	22	23	842
Caucasian/White	41	15	37	23	56	3	7	0	0	858	40	38	55	8	0	858	14129	16	52	21	11	848
Not Reported	0										0						0					
Identified disability																						
Yes	10	2	20	6	60	2	20	0	0	850	9	22	56	22	0	850	2258	3	29	31	37	836
No	34	15	44	18	53	1	3	0	0	861	34	44	53	3	0	861	12649	18	55	20	7	850
Current LEP																						
Yes	0										0						315	4	29	25	42	834
No	44	17	39	24	55	3	7	0	0	858	43	40	53	7	0	858	14592	16	52	21	11	848
Economically disadvantaged																						
Yes	12	4	33	7	58	1	8	0	0	855	11	36	55	9	0	855	5206	8	45	28	20	842
No	32	13	41	17	53	2	6	0	0	860	32	41	53	6	0	860	9701	20	55	18	7	850
Migrant																						
Yes	0										0						7	29	57	14	0	852
No	44	17	39	24	55	3	7	0	0	858	43	40	53	7	0	858	14900	16	51	21	12	847
Gender																						
Female	22	7	32	13	59	2	9	0	0	856	21	33	57	10	0	856	7196	14	52	23	12	847
Male	22	10	45	11	50	1	5	0	0	860	22	45	50	5	0	860	7711	18	51	20	12	848
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	13	1	8	11	85	1	8	0	0	849	13	8	85	8	0	849	804	6	38	34	22	841
No	31	16	52	13	42	2	6	0	0	862	30	53	40	7	0	862	14103	16	52	21	11	848
Gifted/talented program																						
Yes	2										2						592	63	35	1	0	865
No	42	15	36	24	57	3	7	0	0	857	41	37	56	7	0	858	14315	14	52	22	12	847

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

SCIENCE AND TECHNOLOGY RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 8

SAU: Orono School Department

School: Orono Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	2	0	0	1	100	0	0	0	0	852	2	0	100	0	0	852	9	10	40	26	23	842
B. less than one hour	39	5	29	10	59	2	12	0	0	854	37	31	56	13	0	855	46	14	52	22	12	847
C. one to two hours	55	10	42	13	54	1	4	0	0	861	56	42	54	4	0	861	41	19	53	19	9	849
D. more than two hours	5	2	100	0	0	0	0	0	0	865	5	100	0	0	0	865	5	19	47	21	14	848
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	26	5	45	4	36	2	18	0	0	857	27	45	36	18	0	857	29	19	54	19	9	849
B. They match some of what I have learned.	57	10	42	14	58	0	0	0	0	860	56	43	57	0	0	860	49	16	51	22	11	848
C. They match just a little of what I have learned.	12	1	20	4	80	0	0	0	0	857	12	20	80	0	0	857	18	13	51	23	13	846
D. There is no match.	5	0	0	2	100	0	0	0	0	858	5	0	100	0	0	858	5	9	39	29	23	842
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	23	7	70	3	30	0	0	0	0	869	23	70	30	0	0	869	23	28	51	13	8	853
B. good	59	9	35	15	58	2	8	0	0	857	58	36	56	8	0	857	54	15	55	21	9	848
C. fair	16	1	14	5	71	1	14	0	0	852	16	14	71	14	0	852	20	5	45	32	18	842
D. poor	2	0	0	1	100	0	0	0	0	842	2	0	100	0	0	842	3	2	35	34	29	838
How difficult was the science part of this test?																						
A. harder than my regular schoolwork	39	5	29	11	65	1	6	0	0	859	40	29	65	6	0	859	27	15	49	22	14	846
B. about the same as my regular schoolwork	50	10	45	11	50	1	5	0	0	858	49	48	48	5	0	858	59	15	53	22	10	848
C. easier than my regular schoolwork	11	2	40	2	40	1	20	0	0	858	12	40	40	20	0	858	13	21	51	18	10	850
How hard did you try on the science part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	42	6	33	11	61	1	6	0	0	857	40	35	59	6	0	857	40	15	51	22	12	847
B. I tried about the same as I do on my regular schoolwork.	56	11	46	12	50	1	4	0	0	860	57	46	50	4	0	860	55	17	53	21	10	848
C. I did not try as hard on this test as I do on my regular schoolwork.	2	0	0	0	0	1	100	0	0	838	2	0	0	100	0	838	5	12	41	25	22	843
Which courses do you plan to take before you graduate from high school?																						
A. earth and space science and/or biology	16	3	43	3	43	1	14	0	0	857	17	43	43	14	0	857	25	11	53	23	13	846
B. the course(s) described in A, plus chemistry	28	4	33	7	58	1	8	0	0	856	26	36	55	9	0	856	24	18	53	20	10	849
C. the course(s) described in B, plus physics	42	9	50	8	44	1	6	0	0	861	43	50	44	6	0	861	22	30	47	14	8	853
D. a life science and physical science class	14	1	17	5	83	0	0	0	0	855	14	17	83	0	0	855	29	8	52	27	14	844
How do you feel about the following statement? <i>"My knowledge of science and technology will be useful to me as an adult."</i>																						
A. strongly agree	30	7	54	4	31	2	15	0	0	860	31	54	31	15	0	860	27	23	51	17	9	851
B. agree	67	9	31	19	66	1	3	0	0	857	67	32	64	4	0	857	54	15	53	21	11	847
C. disagree	2	1	100	0	0	0	0	0	0	876	2	100	0	0	0	876	15	10	50	26	14	845
D. strongly disagree	0										0						4	7	39	30	24	841
How well does the following statement reflect your future goals? <i>"I am interested in a career related to science, technology, engineering, or mathematics."</i>																						
A. strongly agree	34	9	60	6	40	0	0	0	0	862	33	64	36	0	0	863	25	24	52	15	8	851
B. agree	39	5	29	10	59	2	12	0	0	856	40	29	59	12	0	856	37	15	50	22	12	847
C. disagree	23	3	30	6	60	1	10	0	0	856	23	30	60	10	0	856	26	12	53	23	12	846
D. strongly disagree	5	0	0	2	100	0	0	0	0	858	5	0	100	0	0	858	12	8	48	28	15	844
Optional school/SAU question																						
A.	20	0	0	1	100	0	0	0	0	856	20	0	100	0	0	856						
B.	60	0	0	3	100	0	0	0	0	847	60	0	100	0	0	847						
C.	0										0											
D.	20	0	0	1	100	0	0	0	0	852	20	0	100	0	0	852						

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number